



**ENGINEERED
FIBERS
TECHNOLOGY, LLC**

**KURARAY POLYESTER FIBERS
For PAPERMAKING APPLICATIONS**

General Characteristics

- Available in a Range of Deniers and Types
- Good Moisture Resistance
- Good Oil Resistance
- Improves Paper Strength (Undrawn and Bicomponent)
- Thermal Binding (Bicomponent Sheath-Core)

EXHIBIT A

KURARAY Polyester Fibers for Paper Making Applications

Subject Fibers

Type No.	Denier	Diameter (μ)	Cut length (mm)	Remarks
131043	9.5	7	3.8	round cross section, straight
132053	10.5	8	5.5	round cross section, straight
132163	11.5	10	10 (10.12-15)	round cross section, straight
132203	13.0	14	5.10	round cross section, straight
E-217203	2.7	20	5.10	T-shaped cross section, crimp
ED1503	2.0	17	5.10	round cross section, straight

UDY (undrawn yarn) Binder Fibers

Type No.	Denier	Diameter (μ)	Cut length (mm)	Remarks
131104	1.5	13	3.5	round cross section, straight
131204	1.7	15	3.5	round cross section, straight

Bicomponent Fibers (Copolyester / Polyester)

Type No.	Denier	Diameter (μ)	Cut length (mm)	Remarks	Cross Section
N720	2.0	14	5.10	binder type (-110°C.)	co-polyester polyester
N720H	2.1	15	5	binder type (-110°C.)	diff
N721	1.5	13	5	binder type (-110°C.) SGU = 60/40	co-polyester polyester
N700	3.1	23	5	binder type (-130°C.) bom fiber	co-polyester
N790	2.5	16	5	high loft, crimp	co-polyester polyester

All the above products are produced by Kuraray Tamashima plant, which is approved to ISO9002 quality certifications.